

Wiring Diagrams

DETROIT DIESEL



Generator Sets

Models:

200DSEB
230-450DSED

Controllers:

Digital 550
Microprocessor-Plus, 16-Light



Product Identification Information

Product identification numbers determine service parts. Record the product identification numbers in the spaces below immediately after unpacking the products so that the numbers are readily available for future reference. Record field-installed kit numbers after installing the kits.

Generator Set Identification Numbers

Record the product identification numbers from the generator set nameplate(s).

Model Designation _____

Specification Number _____

Serial Number _____

Accessory Number	Accessory Description
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
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_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Controller Identification

Record the

This manual provides wiring diagrams for the Detroit Diesel-powered generator sets listed on the front cover, equipped with one of the following controllers:

- Digital 550
- Microprocessor-Plus, 16-Light

Information in this publication represents data available at the time of print. The manufacturer of DDC/MTU Power Generation products reserves the right to change this publication and the products represented without notice and without any obligation or liability whatsoever.

Service Assistance

For professional advice on generator set power requirements and conscientious service, please contact your nearest DDC/MTU Power Generation distributor.

- Consult the Yellow Pages under the heading Generators—Electric.
- Visit the DDC/MTU Power Generation website at DDCMTUPowerGeneration.com.
- Look at the labels and stickers on your DDC/MTU Power Generation product or review the appropriate literature or documents included with the product.

Wiring Diagrams

Use the Wiring Diagram Cross-Reference chart to determine the wiring diagram version number for a given model number and spec number. Then find that version number, the controller type, and the alternator type on the Controller Wiring Diagrams Reference chart to determine the wiring diagram numbers for your unit.

Refer to Controller Identification for controller type identification, if necessary. Refer to the generator set nameplate for the alternator type. A wound field alternator is identified with a W as the last digit. Example: Gen. Model 4UA9W.

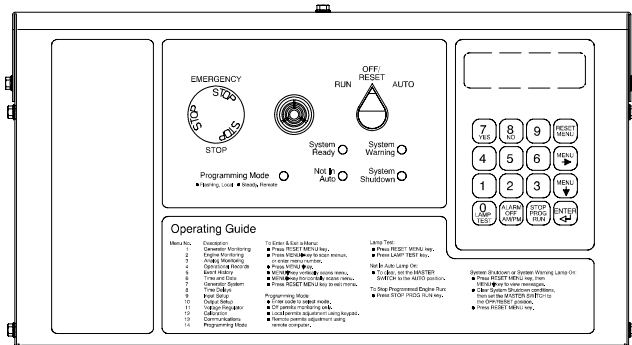
Wiring Diagram Cross-Reference

Generator Set Model No.	Generator Set Spec No. 50 Hz	Generator Set Spec No. 60 Hz	Version No.
200DSEB	GM19608-GA1S	GM19608-GA1S	1
230DSED	—	GM41933-GA1S	2
250DSED	—	GM41933-GA2S	2
275DSED	—	GM41933-GA3S	2
300DSED	—	GM41933-GA4S	2
350DSED	—	GM41981-GA3S	3

230-300DSED Controller Wiring Diagrams Reference

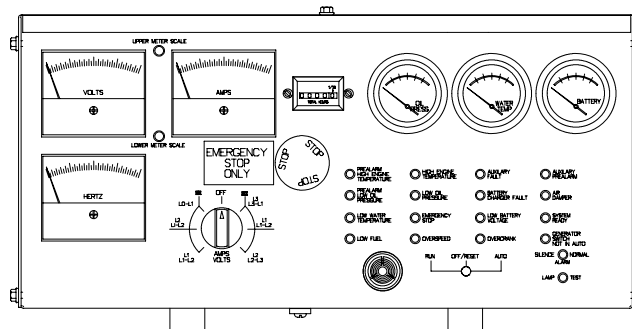
Controller Description	Version 2	Page
Digital 550		
Point-to-Point Wiring Diagram		
Sheet 1	GM39855A-C	33
Sheet 2	GM39855B-C	34
Wound Field Alternator	GM35944-B	32
Permanent Magnet Alternator	GM35943-A	31
Schematic Diagram		
Sheet 1	ADV-7102A-C	20
Sheet 2	ADV-7102B-C	21
Wound Field Alternator	ADV-6958-A	17
Permanent Magnet Alternator	ADV-6957-	16
Accessory Connections		
Sheet 1	GM16088A-F	25
Sheet 2	GM16088B-F	26
Microprocessor-Plus		
Point-to-Point Wiring Diagram		
Sheet 1	GM42005A-C	

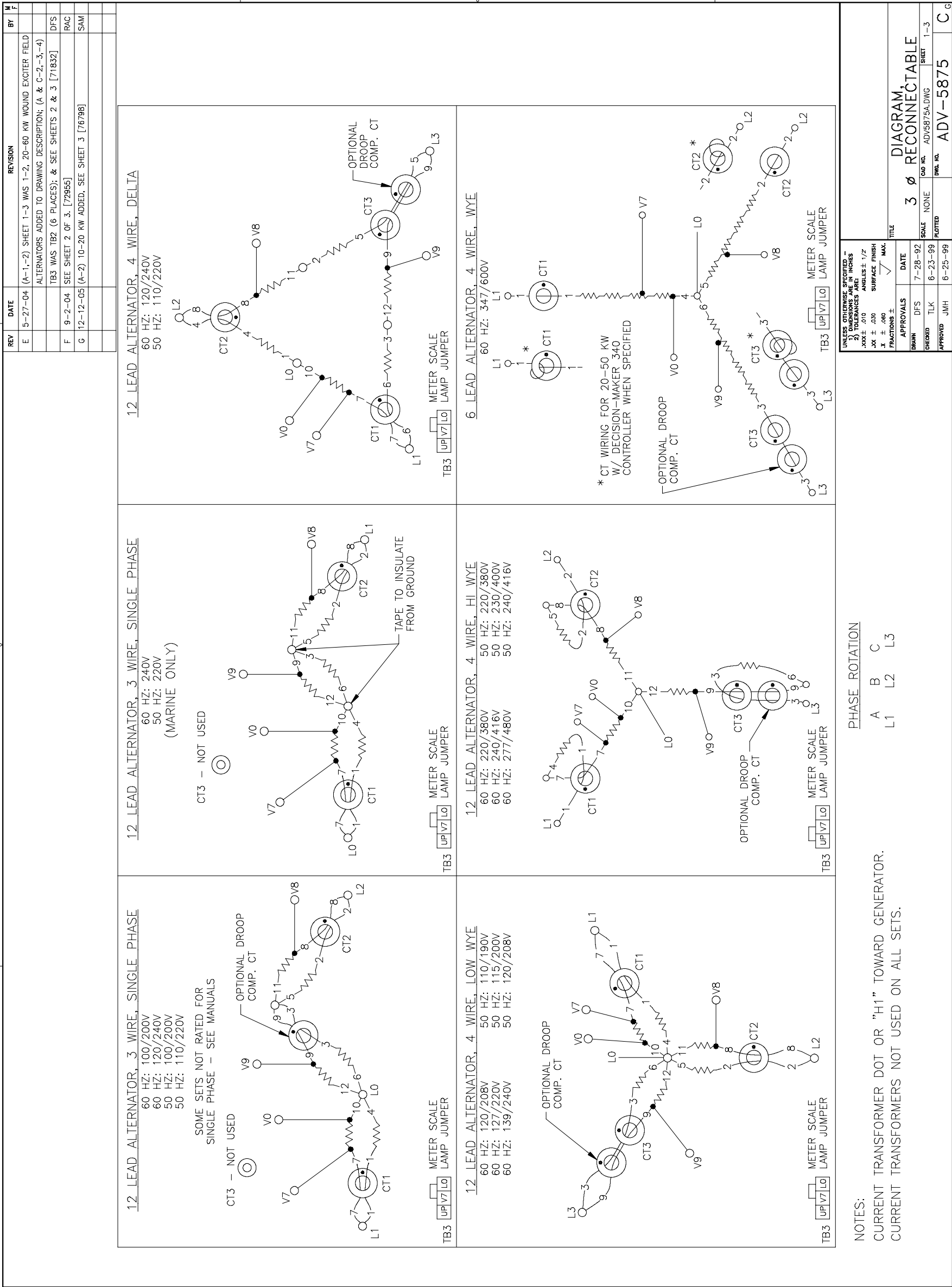
Controller Identification



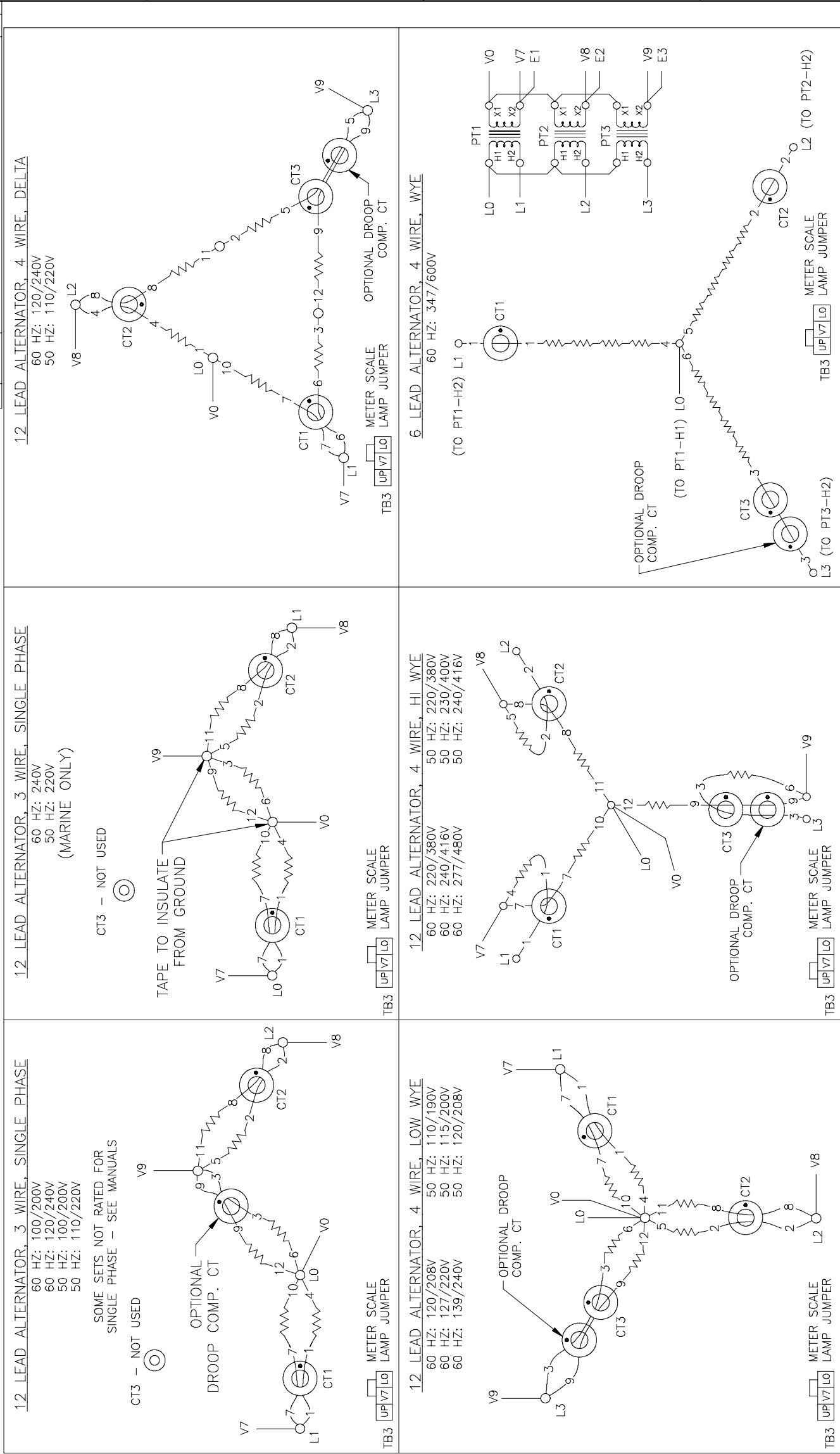
Digital 550 Controller

- Audiovisual annunciation with NFPA 110 Level 1 capability.
- Programmable microprocessor logic and digital display features.
- Alternator safeguard circuit protection.
- 12- or 24-volt engine electrical system capability.
- Remote start, remote annunciation, and remote communication options.





REV	DATE	REVISION	BY
E	5-27-04	(A-1,-2) SHEET 2-3 WAS 2-2, 80-300 KW WOUND EXCITER FIELD ALTERNATORS WAS MARATHON ALTERNATORS IN DRAWING	
		DESCRIPTION: MARATHON WIRING DIAGRAMS MOVED TO SHEET 3:	
		(A & C-2,-3,-4) TB3 WAS TB2 (6 PLACES) & SEE SHEETS	
		1 AND 3 [71832]	
F	9-2-04	(A-2) 60 (M.S.)-300 KW WAS 80-300 KW. [72955]	DFS
			RAC
G	12-12-05	SEE SHEET 3 [76798]	SAM



REV	DATE	REVISION	BY	APP
E	5-27-04	(A-1) THIS SHEET ADDED & MAPATHON WIRING DIAGRAMS		
		TRANSFERRED FROM SHEET 2-2; (A & C-2,-3,-4) TBS WAS		
		TB2 (6 PLACES) & SEE SHEET 1 AND 2 [71832]		
F	9-2-04	SEE SHEET 2 OF 3. [72905]		
		RAC		
G	12-12-05	(B-2) 6 LEAD ALTS: 3 PHASE PT DIAGRAM ADDED [7698]		
		SAM		

D

GENERATOR CONNECTIONS

